

SECTION 501 ASPHALTIC CONCRETE MIXTURES

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
	TESTED BY		METHOD		CONTAINER	DISTR.				
FOR PROJECTS, OR SEPARATE LOCATIONS WITHIN A PROJECT, REQUIRING LESS THAN 250 TONS, THE JMF, MATERIALS, AND PLANT AND PAVING OPERATIONS SHALL BE SATISFACTORY TO THE ENGINEER. SEE SUBSECTION 501.12 for further details.										
ADDITIVES	Anti-Stripping	501.02 1002.02(a) Mat. Lab	Prelim. Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt Friction top can	----	----	10 days	(QPL 57)
		501.02 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1 per/shipment/ plant*	1 pt Friction top can	CD 1 & 7	----	10 days	(QPL 57) *Sample when not accompanied by CD or questionable.
	Hydrated Lime	501.02 1018.03(a) Mat. Lab	Accept.	Proj. Engr. S 102	1/shipment*	----	CD 1 & 7	----	10 days	(QPL 34) *Sample only if questionable.
AGGREGATES	Gravel Prior to Crushing	501.02(c)(1) Dist. Lab	Accept.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack	----	----	5 days	(QPL 2) Percent passing No. 4 sieve.
	Combined Aggregates (Moisture Content)	503.09(b) Contractor	Quality Control	Contractor S 101	2/day/plant*	1 gal Suitable container	----	----	----	For drum-mixer plants. *Sample prior to starting plant & during operation. May be reduced to 1/plant/day when weather & stockpile conditions warrant, as allowed by DOTD inspector.
	Gravel, Stone & Crushed Slag	501.02 1003.06(a)(1) Dist. Lab	Design/ Accept.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack	----	----	5 days	(QPL 2) For Aggregate Properties
	Crushed Shell	501.02 1003.06(a)(7) Dist. Lab	Design/ Accept.	Proj. Engr. S 101	1/stockpile/ plant	1 full sample sack	-----	----	5 days	-----
	Expanded Clay Coarse Aggregate	501.02 1003.06(a)(8) Proj. Engr.	Design/ Accept.	-----	-----	-----	-----	----	-----	(QPL 2) Visual inspection by Proj. Engr.
	Mineral Filler	501.02(c)(3) 1003.06(a)(6) Dist. Lab	Design/ Accept.	Proj. Engr. S 102	1/500 tons*	1 gal Friction top can	----	----	-----	(QPL 10)*Sampling not required for portland cement or hydrated lime when accompanied by CD

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AGGREGATES (Cont'd)	Natural Sand	1003.06(a)(3) Dist. Lab	Accept./ Design	Proj. Engr. S 101	1/source/plant	1 full sample sack	----	----	5 days	(QPL 2) Includes sand equivalent testing.
	Reclaimed Asphaltic Pavement (RAP)	501.02(c)(2) 1003.06(a)(5) Dist. Lab	Accept./ Design	Proj. Engr. S 101	1/stockpile	3 full sample sacks	----	----	----	For % AC, % crushed and gradation.
	Sand-Gravel	501.02(c)(1) 1003.06(a)(9)	Accept./ Design	Proj. Engr S 101	1/stockpile/ source/size	1 full sample sack	----	----	5 days	(QPL 2) For Type 5 mixes only. Must be separated into two sizes prior to final mixing.
ASPHALT MIX RELEASE AGENT		1018.26 503.04 Proj. Engr.	Accept.*	----	----	----	----	----	----	(QPL 25) *Visual inspection for performance by Proj. Engr.
ASPHALTIC CONCRETE (PLANT)	Anti-Strip Additive, %	501.12(b) 501.12(e) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*	----	----	----	*Range given on JMF, % Anti-Strip from meter. See QA Manual.
	Asphalt Cement, %	501.12(a) 503.09 Proj. Engr.	Accept.	Proj. Engr. S 612	1/half lot	*	----	----	----	*% AC from meter or scales. See QA Manual.
	Briquettes	501.03(b) Contractor	Marshall Design	Contractor S 203	1 set/JMF	9 briquettes/set	----	----	----	Results submitted with JMF.
			Lottman Design	Contractor S 203	1 set/JMF	6 briquettes/set	----	----	----	Results submitted with JMF.
			Quality Control	S 203	1 set/ 10 lots/ JMF	----	----	----	----	----

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		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (Plant)	Briquettes	501.03(b) 501.12 Dist. Lab	Design/ Accept.	Proj. Engr. S 203	1 set/ 20 lots/ JMF*	6 briquettes/set	----	----	7 days	Modified Lottman *1 set per JMF for design to validate contractor's results and 1 set per 20 lots per JMF for acceptance.
		501.12(b) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	4/lot*	Suitable sampling bucket	----	----	1 day	*One briquette for Marshall properties for each subplot.
		501.12(b) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	1/half lot	Suitably wrapped	----	----	5 days	Shall be a companion sample of an acceptance sample representing each half lot of plant operation. (Submit the second briquette.)
		501.12(b) Dist. Lab	I A	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
	Job Mix Formula (JMF)	501.03 Contractor	Design	----	1/mix type/ plant	----	----	----	----	Contractor shall submit to the Dist. Lab Engr. The proposed job mix formula with supporting design data. Approval is required prior to starting work.
	Loose Mixture (Maximum Specific Gravity)	501(12)(b) Proj. Engr	Accept.	Proj. Engr. S203	2/lot*	Suitable sampling bucket	----	----	1 day	*Average of two tests (one from each of two sublots) will be used to determine volumetric and density.

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ASPHALTIC CONCRETE (Plant) (Cont'd)	Loose Mixture (Asphalt Coating)	503.02(m) Contractor	Mix Design/ Quality Control	Contractor S 203	1/JMF*	1 gal Friction top can	-----	-----	-----	*Additional tests shall be taken to control asphalt coating of aggregates in mixture.
		503.02(m) Proj. Engr.	Accept.	Proj. Engr. S 203	1/JMF*	1 gal Friction top can	-----	-----	1 day	*Additional tests shall be taken if asphalt coating is questionable.
	Loose Mixture (Gradation, % AC and % Crushed)	501.03 Contractor	Quality Control	Contractor S 203 & S 605	2/lot	Suitable sampling bucket	-----	-----	-----	Results plotted on control charts.
		501.12(b) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	2/lot*		-----	-----	1 day	*Two loose mix samples randomly spaced throughout lot. Test one sample, if results are outside control limits then test 2 nd sample.
		501.12(b) Dist. Lab	I A	Dist. Lab S 203	-----	-----	-----	-----	7 days	See Independent Assurance Program S 701. Whenever possible, sample at same time acceptance sampling is done.
	Loose Mixture (Moisture Content)	503.09 Contractor	Mix Design/ Quality Control	Contractor S 203	as needed*	1 gal Friction top can	-----	-----	-----	*Additional tests shall be taken to control moisture content in final mixture.
		503.09 Proj. Engr.	Accept.	Proj. Engr. S 203	1/lot	1 gal Friction top can	-----	-----	1 day	-----

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